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AMENDMENT

IN THE CLAIMS

Please amend Claims 29-48 as follows:

Sub 72
E1
(29) (Amended) An isolated [, extrachromosomal] polynucleotide comprising at least 8 consecutive bases and up to about 100 consecutive bases of the sequence shown in SEQ ID NOS:1 or 2, or the complement thereof, wherein said isolated polynucleotide includes at least one polymorphic site shown in Table 1.

30. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 29, wherein the polymorphic site is at base 61465 of SEQ ID NO:1.

31. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 29, wherein the polymorphic site is at base 35983 of SEQ ID NO:1.

32. (Amended) A pair of isolated [, extrachromosomal] polynucleotides as in Claim 29.

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(33) (Amended) An isolated [, extrachromosomal] polynucleotide comprising at least 18 consecutive bases and up to about 100 consecutive bases of the sequence shown in SEQ ID NOS:1 or 2, or the complement thereof, wherein said isolated polynucleotide includes at least one polymorphic site shown in Table 1.

34. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 33, wherein the polymorphic site is at base 61465 of SEQ ID NO:1.

35. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 33, wherein the polymorphic site is at base 35983 of SEQ ID NO:1.

36. (Amended) A pair of isolated [, extrachromosomal] polynucleotides as in Claim 33.

37. (Amended) An isolated [, extrachromosomal] polynucleotide comprising a fragment of at least about 100 consecutive bases and up to about 235 consecutive kilobases of the sequence shown in SEQ ID NOS:1 or 2, or the complement thereof, wherein said isolated polynucleotide includes at least one polymorphic site shown in Table 1.

38. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 37 which is cDNA.

39. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 37 which is RNA.

40. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 37 which is genomic DNA.

41. (Amended) An isolated [, extrachromosomal] polynucleotide comprising a fragment of at least about 300 consecutive bases and up to about 235 consecutive kilobases of the sequence shown in SEQ ID NOS:1 or 2, or the complement thereof, wherein said isolated polynucleotide includes at least one polymorphic site shown in Table 1.

42. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 41 which is cDNA.

43. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 41 which is RNA.

44. (Amended) The isolated [, extrachromosomal] polynucleotide of Claim 41 which is genomic DNA.

45. (Amended) A kit comprising an isolated [, extrachromosomal] polynucleotide of Claim 29.